

July 26, 2021

Mr. Ken Miller
Superintendent
Hazen Public Schools
P.O. Box 487
Hazen, ND 58545

Re: Air Pollution Control
Minor Source (Synthetic)
Permit to Operate (AOP-27167 v4.0)

Dear Mr. Miller:

Pursuant to the Air Pollution Control Rules of the State of North Dakota, the Department of Environmental Quality (Department) has reviewed your permit application dated April 19, 2021 for the Heating Plants located in Mercer County, North Dakota.

Enclosed is a copy of the Department's draft/proposed minor (synthetic) Permit to Operate for the facility. Before making final determinations on the permit application, the Department provides for public comment by means of the enclosed public notice and provide for a concurrent 30-day Environmental Protection Agency (EPA) review. As indicated in the notice, the public comment period will begin on August 2, 2021, and end on September 2, 2021.

All comments received will be considered in the final determination concerning issuance of the permit. The Department will take final action on the permit application following the public comment period and EPA review. You will be notified in writing of our final determination.

If any questions arise regarding the above, please contact me at (701)328-5184 or email Wyatt.Peterson@nd.gov.

Sincerely,



Wyatt Peterson
Environmental Engineer
Division of Air Quality

WP:saj

Enc:

xc/enc: Dan Fagnant, EPA/R8 (email - fagnant.daniel@epa.gov)
Gail Fallon, EPA/R8 (email - fallon.gail@epa.gov)

NOTICE OF INTENT TO ISSUE AN
AIR POLLUTION CONTROL
SYNTHETIC MINOR PERMIT TO OPERATE

Take notice that the North Dakota Department of Environmental Quality (NDDEQ) proposes to issue a renewal of the Air Pollution Control, Permit to Operate to Hazen Public Schools for operation of the Heating Plants in accordance with the ND Air Pollution Control Rules. The facility is located at 520 First Avenue NE in Hazen, North Dakota. The permit allows for the operation of six coal fired boilers, two at each school, to provide heat. The Hazen Public Schools mailing address is P.O. Box 487 Hazen, North Dakota 58545. There are no changes in permitted emissions with this renewal.

A thirty-day public comment period for the draft permit will begin August 2, 2021 and end September 2, 2021. Direct comments in writing to the NDDEQ, Division of Air Quality, 918 E Divide Avenue, Bismarck, ND 58501-1947 or email AirQuality@nd.gov, Re: Public Comment Permit Number AOP-27167 v4.0. Please note that, to be considered, comments submitted by email must be sent to the email address listed; comments sent to any other email address **will not** be considered. Comments must be received by 11:59 p.m. central time on the last day of the public comment period to be considered in the final permit determination. A public hearing regarding issuance of the permit will be held if a significant degree of public interest exists as determined by the NDDEQ. Requests for a public hearing must be received in writing by the NDDEQ before the end of the public comment period.

The notice, draft permit and application are available for review at the NDDEQ Division of Air Quality address and on the Division of Air Quality website at <https://deq.nd.gov/AQ/PublicCom.aspx>. A copy of these documents may be obtained by writing to the Division of Air Quality or contacting Wyatt Peterson at (701)328-5184 or emailing Wyatt.Peterson@nd.gov.

Dated this 23rd day of July 2021.

James L. Semerad
Director
Division of Air Quality

AIR POLLUTION CONTROL
MINOR SOURCE
PERMIT TO OPERATE

Pursuant to Chapter 23.1-06 of the North Dakota Century Code (NDCC), and the Air Pollution Control Rules of the State of North Dakota, and in reliance on statements and representations heretofore made by the permittee designated below, a Permit to Operate is hereby issued authorizing such permittee to operate the source unit(s) at the location designated below. This Permit to Operate is subject to all applicable rules and orders now or hereafter in effect of the North Dakota Department of Environmental Quality (Department) and to any conditions specified below:

1. Permittee: A. Name: Hazen Public Schools B. Address: P.O. Box 487 Hazen, ND 58545	2. A. Permit Number: AOP-27167 v4.0 B. Permit Description: Synthetic Minor Source: NDAC 33.1-15-14-03.1.e
3. Source Name & Location: Hazen Public Schools Heating Plants – Multiple Locations 520 First Avenue NE Hazen, ND 58545 Mercer County	4. Source Type: Heating Plants
5. Expiration Date: <div style="text-align: right; margin-top: 10px;">September 28, 2026</div>	

6. Source Unit(s):			
Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment
Two Burnham Model 4NW-563A underfeed stoker coal-fired boilers rated at 4.3775×10^6 Btu/hr each (High School heating plant)	1 & 2	1 & 2	None
Two Burnham Model 4NW-463A underfeed stoker coal-fired boilers rated at 4.499×10^6 Btu/hr each (Middle School heating plant)	3 & 4	3 & 4	None

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment
Two Burnham Model 4N-827 spreader stoker coal-fired boilers rated at 4.16×10^6 Btu/hr each (Elementary School heating plant)	5 & 6	5 & 6	None

CONDITIONS

7. A. **Emission Limits:** Emission limits from the operation of the source unit(s) identified in Item 6 of this Permit to Operate (hereafter referred to as "permit") are as follows. Source units not listed are subject to the applicable emission limits specified in the North Dakota Air Pollution Control Rules.

Emission Unit Description	EU	EP	Pollutant/Parameter	Emission Limit ^A
All boilers	1 through 6	1 through 6	SO ₂ Opacity	3.0 lb/10 ⁶ Btu 20% ^B

^A Applies to each emission unit.

^B 40% opacity is permissible for not more than one six-minute period per hour.

- B. **Fuel Restriction:** The amount of coal combusted at each heating plant is limited to 8,250 tons per year (12-month period).

- 1) The permittee shall record the amount of coal combusted at each facility monthly and determine the tons per year combusted during the previous 12-month period. Any time the total amount of coal combusted exceeds the allowable limit, the permittee shall notify the Department within 10 working days.

- C. **Maximum Achievable Control Technology Standards (MACT):** The permittee shall comply with all applicable requirements of the following MACT subparts as referenced in Chapter 33.1-15-22 of the North Dakota Air Pollution Control Rules and 40 CFR 63.

- 1) 40 CFR 63, Subpart JJJJJJ - National Emission Standards for Hazardous Air Pollutants for Area Sources: Industrial, Commercial and Institutional Boilers.

- a) All boilers (EU 1 through 6) combust coal and are subject to the rule to include tune-ups, minimizing startup/shutdown periods and preparing reports.

- [1] Conduct an initial tune-up as specified in §63.11214 and conduct a tune-up of the boiler biennially as specified in §63.11223, unless an oxygen trim system is used. If an oxygen trim system is used, conduct an initial tune-up as specified in §63.11214, and conduct a tune-up of the boiler every 5 years as specified in §63.11223.

- [2] Implement work practice standards for startups and shutdowns: Table 2, Subpart 6J and §63.11201.
- [3] The permittee shall prepare a biennial or 5-year compliance report as specified in paragraphs (b)(1) and (2) of section §63.11225 and submit the report to the implementing and enforcement authority upon request.

The North Dakota Department of Environmental Quality has not adopted the provisions of this subpart applicable to boilers with a heat input of less than ten million Btu per hour. Please send all required documentation for the boilers to EPA at the address listed below.

U.S. EPA Region 8
1595 Wynkoop Street
Mail Code 8ENF-AT
Denver, CO 80202-1129

- D. **Fugitive Emissions:** The release of fugitive emissions shall comply with the applicable requirements in NDAC 33.1-15-17.
- E. **Annual Emission Inventory/Annual Production Reports:** The permittee shall submit an annual emission inventory report and/or an annual production report upon Department request, in a format provided or approved by the Department.
- F. **Source Operations:** Operations at the facility shall be in accordance with statements, representations, procedures and supporting data contained in the initial application, and any supplemental information or renewal application(s) submitted thereafter. Any operations not listed in this permit are subject to all applicable North Dakota Air Pollution Control Rules.
- G. **Alterations, Modifications or Changes:** Any alteration, repairing, expansion, or change in the method of operation of the source which results in the emission of an additional type or greater amount of air contaminants or which results in an increase in the ambient concentration of any air contaminant, must be reviewed and approved by the Department prior to the start of such alteration, repairing, expansion or change in the method of operation.
- H. **Recordkeeping:** The permittee shall maintain any compliance monitoring records required by this permit or applicable requirements. The permittee shall retain records of all required monitoring data and support information for a period of at least five years from the date of the monitoring sample, measurement, report or application. Support information may include all calibration and maintenance records and all original strip-chart recordings/computer printouts for continuous monitoring instrumentation, and copies of all reports required by the permit.
- I. **Air Pollution from Internal Combustion Engines:** The permittee shall comply with all applicable requirements of NDAC 33.1-15-08-01 – Internal Combustion Engine Emissions Restricted.

- J. **Nuisance or Danger:** This permit shall in no way authorize the maintenance of a nuisance or a danger to public health or safety.
- K. **Malfunction Notification:** The permittee shall notify the Department as soon as possible during normal working hours of any malfunction which can be expected to last longer than twenty-four hours and can cause the emission of air contaminants in violation of applicable rules and regulations. Immediate notification to the Department is required for any malfunction that would threaten health or welfare, or pose an imminent danger.
- L. **Permit Renewal and Invalidation:** This permit shall be effective from the date of its issuance until the date specified in Item 5 unless sooner suspended, revoked or surrendered. Upon suspension or revocation, the permit shall be returned to the Department. Application for renewal of this permit shall be submitted ninety days prior to such expiration date. The Department shall approve or disapprove the renewal of the permit within ninety days of receipt of the renewal application.
- M. **Change of Ownership:** This permit may not be transferred without prior approval from the Department.
- N. **Right of Entry:** Any duly authorized officer, employee or agent of the North Dakota Department of Environmental Quality may enter and inspect any property, premise or place at which the source listed in Item 3 of this permit is located at any time for the purpose of ascertaining the state of compliance with the North Dakota Air Pollution Control Rules. The Department may conduct tests and take samples of air contaminants, fuel, processing material, and other materials which affect or may affect emissions of air contaminants from any source. The Department shall have the right to access and copy any records required by the Department's rules and to inspect monitoring equipment located on the premises.
- O. **Other Regulations:** The permittee of the source unit(s) described in Item 6 of this permit shall comply with all State and Federal environmental laws and rules. In addition, the permittee shall comply with all local burning, fire, zoning, and other applicable ordinances, codes, rules and regulations.
- P. **Permit Issuance:** This permit is issued in reliance upon the accuracy and completeness of the information set forth in the application. The conditions of this permit herein become, upon the effective date of this permit, enforceable by the Department pursuant to any remedies it now has, or may in the future have, under the North Dakota Air Pollution Control Law, NDCC Chapter 23.1-06. The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.
- Q. **Odor Restrictions:** The permittee shall not discharge into the ambient air any objectionable odorous air contaminant which is in excess of the limits established in NDAC 33.1-15-16.

- R. **Sampling and Testing:** The Department may require the permittee to conduct tests to determine the emission rate of air contaminants from the source. The Department may observe the testing and may specify testing methods to be used. A signed copy of the test results shall be furnished to the Department within 60 days of the test date. The basis for this condition is NDAC 33.1-15-01-12 which is hereby incorporated into this permit by reference. To facilitate preparing for and conducting such tests, and to facilitate reporting the test results to the Department, the permittee shall follow the procedures and formats in the Department's Emission Testing Guideline.

FOR THE NORTH DAKOTA DEPARTMENT
OF ENVIRONMENTAL QUALITY

Date _____

By _____
James L. Semerad
Director